THE REAL PROPERTY.



Applican	nt/Patent Owner: Tomizuka et al.	PRA ESTA
	U No Poder No - COMEO 240	Filed/Issue Date: November 30, 2000
Applicat	ation No./Patent No.: 60/250,340	ODENTS FOR MAKING HUMAN ANTIBODIES
Medare		corporation  /pe of Assignee, e.g., corporation, partnership, university, government agency, etc.)
	(name or respect)	
states th	that it is:	interest or
1.	the assignee of the entire right, title, and	
_	an assignee of an undivided part interes	
	patent application/patent identified above by vir	
re	An assignment from the inventor(s) of the pate recorded in the Patent and Trademark Office a attached.	ent application/patent identified above. The assignment was t Reel, Frame, or for which a copy thereof is
OR		
В. 🗆 A	A chain of title from the inventor(s), of the pate shown below:	ent application/patent identified above, to the current assignee as
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	The document was recorded in the Unite Reel, Frame, or for which a	copy thereof is attached.
	3. From:	To:
	The document was recorded in the Unite	ed States Patent and Trademark Office at
	Reel, Frame, or for which a	a copy thereof is attached.
	☐ Additional documents in the chain of title	are listed on a supplemental sheet.
П с-	opies of assignments or other documents in th	e chain of title are attached.
(NC mu rec	IOTE: A separate copy (i.e., the original assign ust be submitted to Assignment Division in acc corded in the records of the USPTO. See MPE	oment document or a true copy of the original document) cordance with 37 CFR Part 3, if the assignment is to be EP 302.8]
The ur	ındersigned (whose title is supplied below) is e	empowered to sign this statement on behalf of the assignee.
	5-15-01	Signature
	Date	Signature CO
		W Bradford Middlekauff.  Typed or printed name
		General Course
		Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

#### STATEMENT UNDER 37 CFR 3.73(b)

Applic	ant/Pa	stent Owner: Tomizuka et al.	
Applic	ation l	No./Patent No.: 60/250,340	Filed/Issue Date: November 30, 2000
			RODENTS FOR MAKING HUMAN ANTIBODIES
		abushiki Kaisha	•
		ame of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states	that if	t is:	
1.		the assignee of the entire right, title, a	and interest; or
2.	Ø	an assignee of an undivided part inte	rest
in the	paten	t application/patent identified above by	virtue of either:
A. 🖾	An as record attack	ded in the Patent and Trademark Offic	atent application/patent identified above. The assignment was e at Reel, Frame, or for which a copy thereof is
OR			
в. 🗆		ain of title from the inventor(s), of the p n below:	atent application/patent identified above, to the current assignee as
	1. F	rom:	То:
	•	The document was recorded in the Un	ited States Patent and Trademark Office at
		Reel, Frame, or for which	h a copy thereof is attached.
	2. F	rom:	То:
			ited States Patent and Trademark Office at
		Reel, Frame, or for whic	h a copy thereof is attached.
	3. F	rom:	То:
			ited States Patent and Trademark Office at
		Reel, Frame, or for whic	h a copy thereof is attached.
		Additional documents in the chain of t	itle are listed on a supplemental sheet.
По	copies	of assignments or other documents in	the chain of title are attached.
<u>[]</u>	IOTE: lust be	A separate copy (i.e., the original assi	gnment document or a true copy of the original document) accordance with 37 CFR Part 3, if the assignment is to be
The	unders	igned (whose title is supplied below) is	s empowered to sign this statement on behalf of the assignee.
		April 19,200/	Property of
	-	Date	Signature
			Koichiro Aramaki
			Typed or printed name
			President
			Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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Attorney Docket No.: 014643-012100US

#### DECLARATION



As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: TRANSGENIC TRANSCHROMOSOMAL RODENTS FOR MAKING HUMAN ANTIBODIES the specification of which was filed on November 30, 2000 as Provisional Application No. 60/250,340.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Full Name of Inventor 1:	Last Name: TOMIZUKA City:	First Name:  KAZUMA  State/Foreign Country:  Japan	Middle Name or In  Country of Citizen  Japan	ship:
Citizenship: Post Office Address:	Post Office Address: 110-1-405, Yashima-cho Takasaki-shi, Gunma	City:	State/Country: Japan	Postal Code:
Full Name of Inventor 2:	Last Name: ISHIDA City:	First Name: ISAO State/Foreign Country:	Middle Name or I  Country of Citizer  Japan	
Citizenship: Post Office Address:	Post Office Address: Kushihashi 352-6 Isehara, Kanagawa 259-1136	Japan City:	State/Country: Japan	Postal Code:

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1  Rayum Joning Un	Signature of Inventor 2  Isao Ishida
Kazuma Tomizuka /	
A 27 2001	Date Apr 25, 700/
Date Apr. 11, 1007	Duto

PA 3138920 v1





#### **DECLARATION**



As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: TRANSGENIC TRANSCHROMOSOMAL RODENTS FOR MAKING HUMAN ANTIBODIES the specification of which was filed on November 30, 2000 as Provisional Application No. 60/250,340.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Full Name of	Last Name:	First Name: NILS	Middle Name or In	itial:
Inventor 1: Residence &	LONBERG City:	State/Foreign Country: California	Country of Citizen United States	
Citizenship: Post Office	Post Office Address:	City: Woodside	State/Country: California	Postal Code: 94062
Address: Full Name of	780 W. California Way  Last Name:	First Name: ED	Middle Name or Initial:	
Inventor 2: Residence &	City:	State/Foreign Country: California	Country of Citizer United States	
Citizenship: Post Office Address:	Sunnyvale  Post Office Address: 1004 Edmonds Court	City: Sunnyvale	State/Country: California	Postal Code: 94087

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

121 121	
Signature of Inventor 3	Signature of Inventor 4
m	Edward March
Nils Lonberg	Ed Halk Date 05-(5-0)
Date 05-15-01	Date (/)

PA 3138921 v1



PTO/SB/81 (10-00)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## POWER OF ATTORNEY OR **AUTHORIZATION OF AGENT**

SOIR BIG IECONOS CO TOSPEN		_
Application Number	60/250,340	_
Filing Date	November 30, 2000	_
First Named Inventor	Tomizuka et al.	1
Group Art Unit	Not yet assigned	
	Not yet assigned	
Examiner Name	014643-012100US	
Attorney Docket Number		_

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	er(s) named below:			Registration N	umber	
Name		41,303				
	Andrew T. Serafini, Ph.D.			30,223		•
	William M.	William M. Smith		30,223		
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Address Address City Country Telephone I am the: Applic	cant/Inventor.  The end of an equal incate under 37 CFR 3.73(b)  Kirin Beer	signature of Appli	Fax 3.71. TO/SB/96	Assignee of Reco	rd	
Address Address City Country Telephone I am the: Applic Assig Certific	cant/Inventor.  nee of record of an equal in cate under 37 CFR 3.73(b)  Kirin Beer	SIGNATURE of Appli	Fax 3.71. TO/SB/96	Assignee of Reco	rd	
Address Address City Country Telephone I am the: Applic Assig Certifit Name Signature	cant/Inventor.  nee of record of an equal in cate under 37 CFR 3.73(b)  Kirin Beer	signature of Appli	Fax 3.71. TO/SB/96 cant or A	Assignee of Reco	dent	ntive(s) are required

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#### POWER OF ATTORNEY OR **AUTHORIZATION OF AGENT**

ISOIS BIE IEQUITOC IO TOSPOTT		
Application Number	60/250,340	
	November 30, 2000	
Filing Date	Tomizuka et al.	POPE
First Named Inventor	Not yet assigned	JONE TO STATE
Group Art Unit	Not yet assigned	
Examiner Name	014643-012100US	
Attorney Docket Number	014043-01210000	

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☑ Practition	er(s) name	Name		Registration Number
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	Andrew T. Serafini, Ph.D. William M. Smith			30,223
				30,123
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I am the:				
	cant/Invent		-4	·
☐ Appli		ord of an equal interest. See 37 CFR 3	./1.	
Appli	inee of rec	July 1 and 1	C/SB/961	
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Appli	nee of reci icate under	37 CFR 3.73(b) is enclosed. (Form P1 SIGNATURE of Applic	O/2B/90)	ssignee of Record
Appli	icate under	37 CFR 3.73(b) is enclosed. (Form P1	cant or A	ssignee of Record
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PA 3138950 v1



Attorney Docket No.: 014643-012100US



## ASSIGNMENT OF PROVISIONAL PATENT APPLICATION

JOINT

WHEREAS, Kazuma Tomizuka, of 110-1-405, Yashima-cho Takasaki-shi, Gunma 370-0849, Japan; and Isao Ishida, of Kushihashi 352-6 Isehara, Kanagawa 259-1136, Japan; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified provisional patent application:

Title of Invention:

TRANSGENIC TRANSCHROMOSOMAL RODENTS FOR

MAKING HUMAN ANTIBODIES

Filing Date:

November 30, 2000

Application No.:

60/250,340; and

WHEREAS, Kirin Beer Kabushiki Kaisha, located at 10-1, Shinkawa 2-chome, Chuo-ku, Tokyo 104-8288 Japan, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: Apr. 27, 200

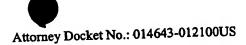
Kazuma Tomizuka

Dated: Apr 25, 2001

Tean Tehida

PA 3138931 v1







# ASSIGNMENT OF PROVISIONAL PATENT APPLICATION

TOINT

WHEREAS, Nils Lonberg, of 780 W. California Way, Woodside, CA 94062; and Ed Halk, of 1004 Edmonds Court, Sunnyvale, CA 94087; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified provisional patent application:

Title of Invention:

TRANSGENIC TRANSCHROMOSOMAL RODENTS FOR

MAKING HUMAN ANTIBODIES

Filing Date:

November 30, 2000

Application No.:

60/250,340; and

WHEREAS, Medarex, Inc., located at 67 Beaver Avenue, Annandale, NJ, 08801, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated - 05-15

Nils I onhere

Dated:

05-15-4

EA HAV

PA 3138935 v1